

WHAT IS CLAIMED IS:

1. A thermal transfer donor element comprising a substrate and a transfer layer capable of being selectively thermally transferred from the donor element, the transfer layer comprising a blend of a light emitting polymer and an additive selected to promote high fidelity thermal transfer of the transfer layer, the blend being capable of forming an emissive layer of an organic electroluminescent device.

2. The donor element of claim 1, further comprising a light-to-heat conversion layer disposed between the base substrate and the transfer layer.

3. The donor element of claim 2, further comprising an interlayer disposed between the light-to-heat conversion layer and the transfer layer.

4. The donor element of claim 1, further comprising a transfer assist layer disposed on the transfer layer so that the transfer layer is between the base substrate and the transfer assist layer.

5. The donor element of claim 1, wherein the light emitting polymer comprises a poly(phenylenevinylene).

6. The donor element of claim 1, wherein the light emitting polymer comprises a poly-para-phenylene.

7. The donor element of claim 1, wherein the light emitting polymer comprises a polyfluorene.

8. The donor element of claim 1, wherein the light emitting polymer comprises a co-polymer.

9. The donor element of claim 1, wherein the light emitting polymer includes a molecular dopant.

10. The donor element of claim 1, wherein the light emitting polymer
5 includes a fluorescent dye.

11. The donor element of claim 1, wherein the additive comprises an oligomer of the light emitting polymer.

10 12. The donor element of claim 1, wherein the additive comprises an organic small molecule material.

13. The donor element of claim 1, wherein the additive comprises an inert
15 polymer.

14. The donor element of claim 1, wherein the additive comprises a conductive polymer.

15 15. The donor element of claim 1, wherein the additive comprises a
20 conjugated polymer.

16. The donor element of claim 1, wherein the blend comprises polystyrene dispersed in a poly(phenylenevinylene).

25 17. The donor element of claim 16, wherein the weight ratio of polystyrene to poly(phenylenevinylene) in the blend is about 1:1.

18. The donor element of claim 1, wherein the transfer layer further
comprises an organic charge conductive or semiconductive material disposed in a layer
30 adjacent to the blend.

19. A process for patterning a light emitting polymer comprising the steps of:

providing a thermal transfer donor element comprising a substrate and a transfer layer comprising a blend of a light emitting polymer and an additive, the additive selected to promote high fidelity thermal transfer of the transfer layer and the blend being capable of forming an emissive layer of an organic electroluminescent device;

bringing the donor element into close proximity with a receptor substrate; and

selectively thermally transferring portions of the transfer layer from the donor to the receptor.

20. The process of claim 19, further comprising repeating the steps using another donor element comprising a substrate and a transfer layer comprising an organic light emitting material.

21. The process of claim 19, wherein the donor element further comprises a light to heat conversion layer disposed between the substrate and the transfer layer.

22. The process of claim 21, wherein the donor element further comprises an interlayer disposed between the light to heat conversion layer and the transfer layer.

23. The process of claim 19, wherein the receptor further comprises a pattern of electrodes.

24. The process of claim 23, wherein the receptor further comprises a buffer layer disposed on the pattern of electrodes.

25. The process of claim 23, wherein the receptor further comprises an active primer layer disposed on the pattern of electrodes.

26. The process of claim 25, wherein the active primer layer comprises a material that matches a material included in the blend.

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